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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,786	09/16/2003	Dong-Gweon Oh	Q77450	9523
23373	7590	11/16/2005	EXAMINER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			NGUYEN, BINH AN DUC	
			ART UNIT	PAPER NUMBER
			3713	

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/662,786

Applicant(s)

OH, DONG-GWEON

Examiner

Binh-An D. Nguyen

Art Unit

3713

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 5, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Addink (6,042,477).

Referring to claim 1, Addink teaches a data synchronization method in multiplayer network games, comprising: a first step of detecting data constructing objects, according to logic having a varied attribute from data of a game operated in a first client, said objects being belong to the first client (see abstract; 2:46-67); and a second step of extracting varied contents of the detected data, segmenting the contents into packets, and transmitting the packets to a second client, wherein the first and second steps are carried out by modules independent of each other (2:46-3:50).

Referring to claim 2, Addink teaches the first step discriminates the data having a varied attribute from data constructing the objects (2:55-65).

Referring to claim 5, Addink teaches a system for peer-to-peer (P2P) network games, comprising: a plurality of clients in which an application program for a P2P network game is operated to execute the network game according to game logic (Fig. 2); and a game server (51) for mediating the network game among the clients, wherein

Art Unit: 3713

the application program includes a game processing module that defines objects used in the game to execute the game and manages variations in attributes of the objects, and a communication module that takes charge of communication between the game server and the clients and among the clients and, when there is a variation in the attributes of the objects, extracts varied contents to transmit them in unit of packets to the clients participating in the game (4:16-5:23).

Referring to claim 6, wherein each of the clients includes an object database (DB) for storing data constructing the objects, and the communication module makes the clients participating in the game share their object DBs to synchronize data of the clients, these limitations are inherent from the computers 53 and 55 since they can receive and/or send data packets to each other during the game.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 4, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Addink (6,042,477) in view of Gupta et al. (US2003/0204742).

Addink teaches all limitations of claims 1, 2, 5, and 6 above. Addink teaches does not explicitly teach the packets of the second step are transmitted using a reliable transmission technique based on negative acknowledge (NACK) and reliable

Art Unit: 3713

transmission technique based on acknowledge (ACK) (claims 3 and 7). Gupta et al., however, teaches a peer-to-peer network that utilizes transmission techniques based on negative acknowledge (NACK) and acknowledge (ACK) (paragraph 65). It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to provide the transmission techniques based on negative acknowledge (NACK) and acknowledge (ACK) of Gupta et al. to the multiplayer gaming system of Addink to provide a reliable game network thus attract more game players and increase profits.

Referring to claim 4, wherein the second step makes the first and second clients share information about their objects to synchronization data of the first client with data of the second client, this limitation is inherent from Addink's teaching of game communication between the computers that utilizes clock offset to minimize the latency (3:1-50).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh-An D. Nguyen whose telephone number is 571-272-4440. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Xuan Thai can be reached on 571-272-7147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BN



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TC3700